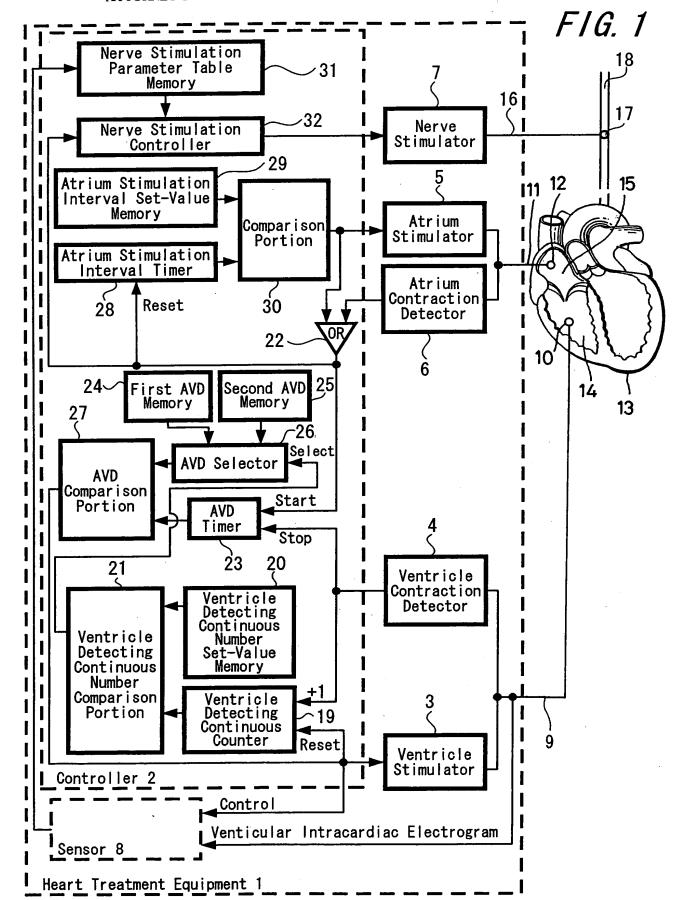
TITLE: HEART TREATMENT EQUIPMENT AND METHOD FOR PREVENTING FATAL ARRHYTHMIA

INVENTOR(S): YOSHIHITO FUKUI

ATTORNEY'S DOCKET NO: 034071-002 SHEET 1 of 24



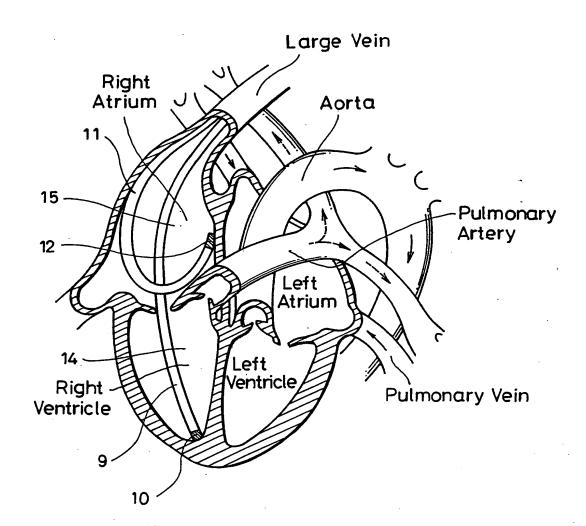
TITLE: HEART TREATMENT EQUIPMENT AND METHOD FOR PREVENTING FATAL ARRHYTHMIA

INVENTOR(S): YOSHIHITO FUKUI

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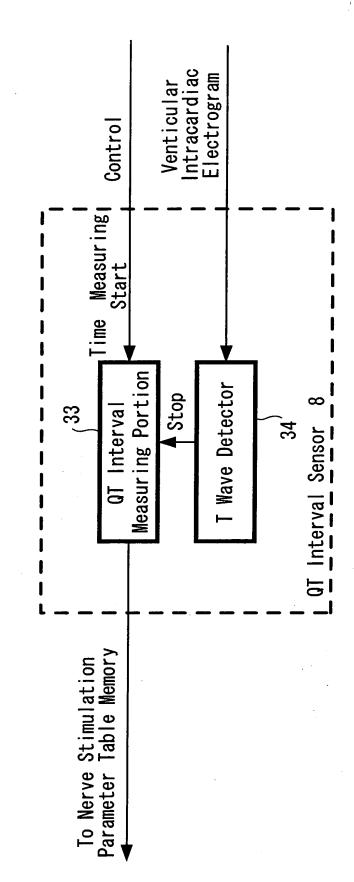
SHEET 2 of 24

F/G. 2



TITLE: HEART TREATMENT EQUIPMENT AND METHOD FOR PREVENTING FATAL ARRHYTHMIA INVENTOR(S): YOSHIHITO FUKUI ATTORNEY'S DOCKET NO: 034071-002 SHEET 3 o

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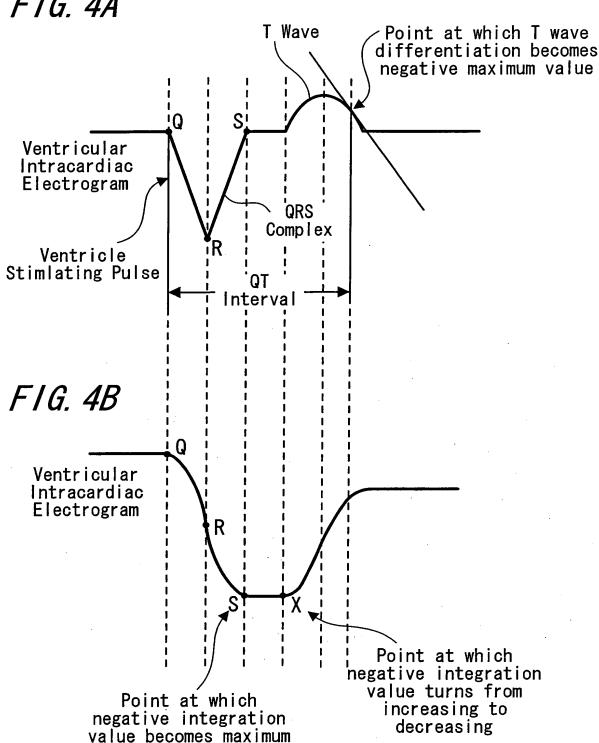


TITLE: HEART TREATMENT EQUIPMENT AND METHOD FOR PREVENTING FATAL ARRHYTHMIA

INVENTOR(S): YOSHIHITO FUKUI

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METHOD FOR PREVENTING FATAL ARRHYTHMIA **INVENTOR(S):** YOSHIHITO FUKUI ATTORNEY'S DOCKET NO: 034071-002 SHEET 5 of 24 Start F/G. 5 Nerve stimulation **S1** flag off Ventricle detecting S2ر continuous counter reset Atrium stimulation S3 interval timer starts **S4** NO Atrium contraction **S5** detected ? YES NO Atrium stimulation interval timer timeout ? **S6** YES Atrium stimulation **S7** Atrium stimulation interval timer starts **S8** AVD Timer starts **S9** NO Nerve stimulation flag on? YES **S10** Nerve stimulation

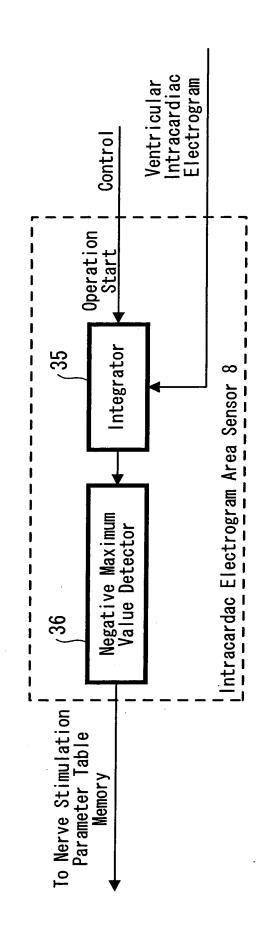
APPLN. FILING DATE: DECEMBER 3, 2003

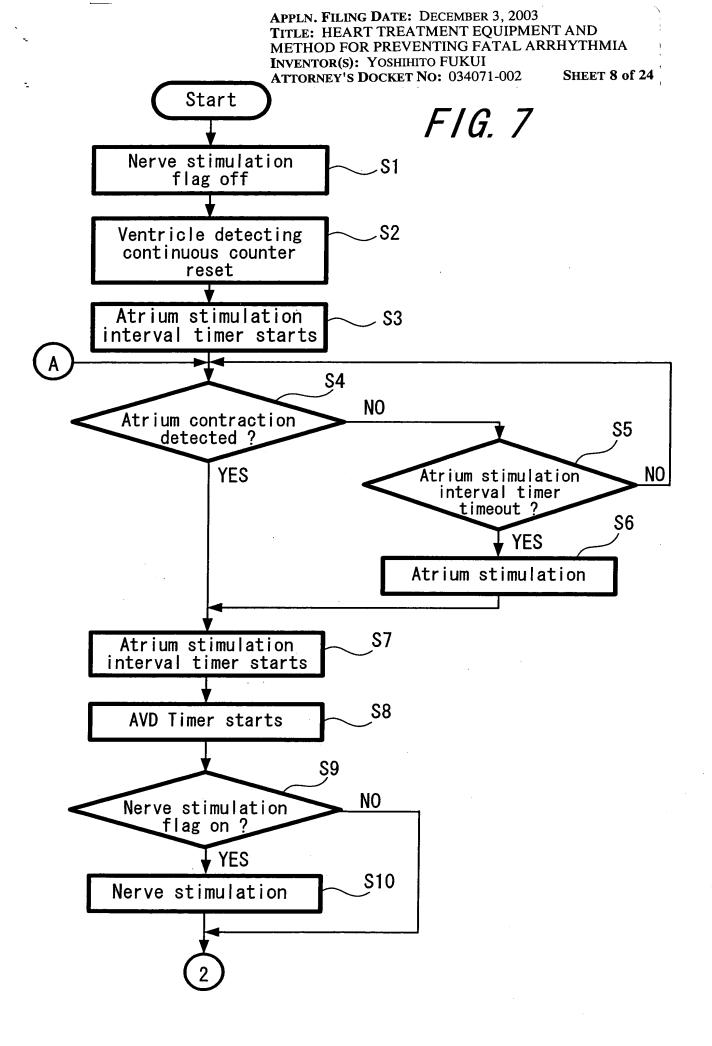
TITLE: HEART TREATMENT EQUIPMENT AND

APPLN. FILING DATE: DECEMBER 3, 2003 TITLE: HEART TREATMENT EQUIPMENT AND METHOD FOR PREVENTING FATAL ARRHYTHMIA Inventor(s): Yoshihito FUKUI SHEET 6 of 24 ATTORNEY'S DOCKET NO: 034071-002 **S11** F/G. 5 NO Ventricle detecting continuous counter= set-value? YES **S12 S14** Second AVD selection First AVD S20 selection QT Interval **S13** timer starts Ventricle detecting continuous counter **S21** Reset NO T wave detected ? **S15** YES S22 Ventricle NO contraction QT Interval detected? **S17** timer stops NO YES AVD timer **S23** timeout ? **S16** YES QT Interval YES within normal Ventricle detecting **S18** range? continuous counter+1 **S24** NO Ventricle stimulation Nerve stimulation **S19** flag on **S25** Ventricle detecting continuous counter Nerve stimulation flag reset parameter set

APPLN. FILING DATE: DECEMBER 3, 2003
TITLE: HEART TREATMENT EQUIPMENT AND METHOD FOR PREVENTING FATAL ARRHYTHMIA INVENTOR(S): YOSHIHITO FUKUI ATTORNEY'S DOCKET NO: 034071-002 SHEET 7 o

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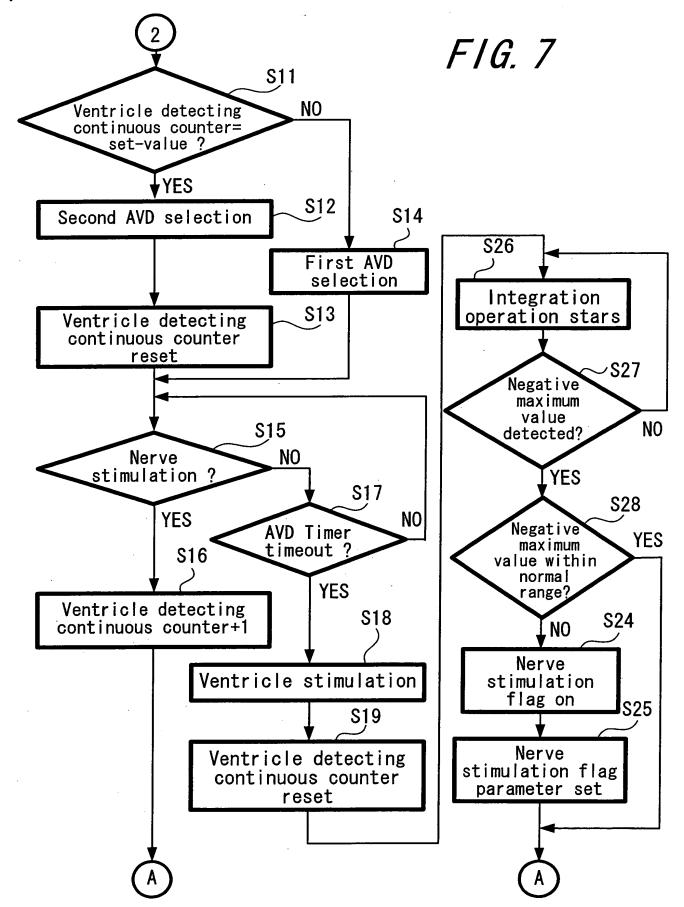




APPLN. FILING DATE: DECEMBER 3, 2003
TITLE: HEART TREATMENT EQUIPMENT AND
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INVENTOR(S): YOSHIHITO FUKUI

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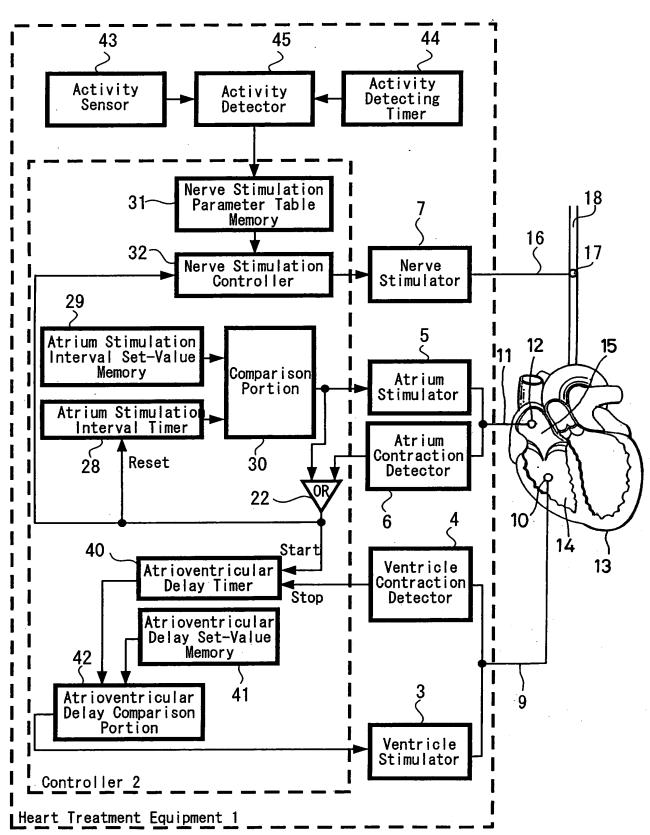
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INVENTOR(S): YOSHIHITO FUKUI

ATTORNEY'S DOCKET NO: 034071-002

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F/G. 8



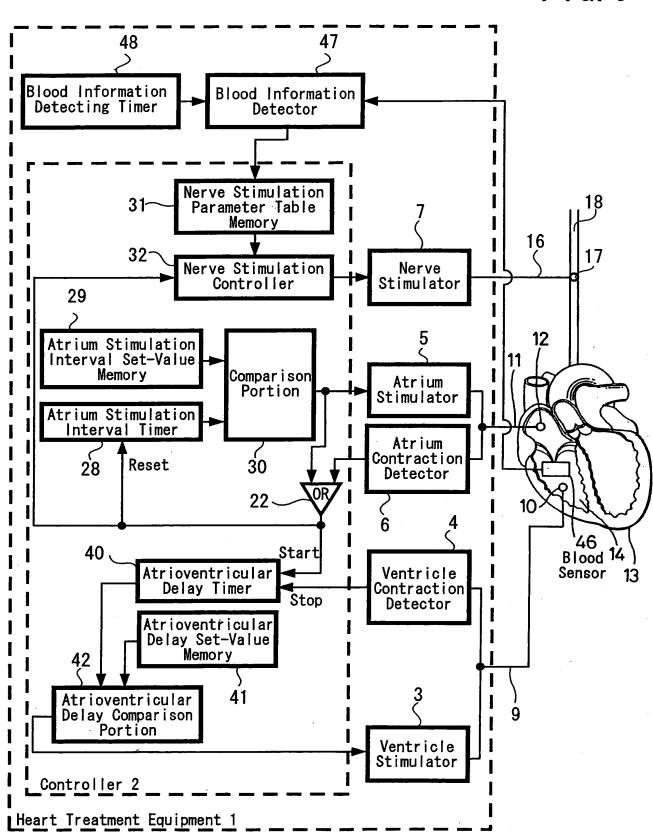
TITLE: HEART TREATMENT EQUIPMENT AND METHOD FOR PREVENTING FATAL ARRHYTHMIA

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INVENTOR(S): YOSHIHITO FUKUI

ATTORNEY'S DOCKET NO: 034071-002

F/G. 9

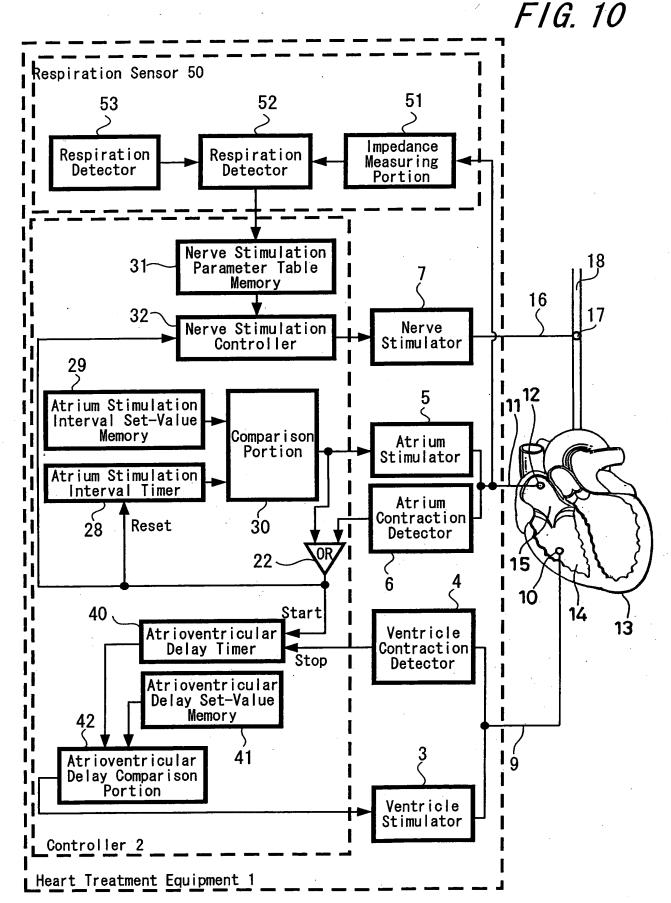


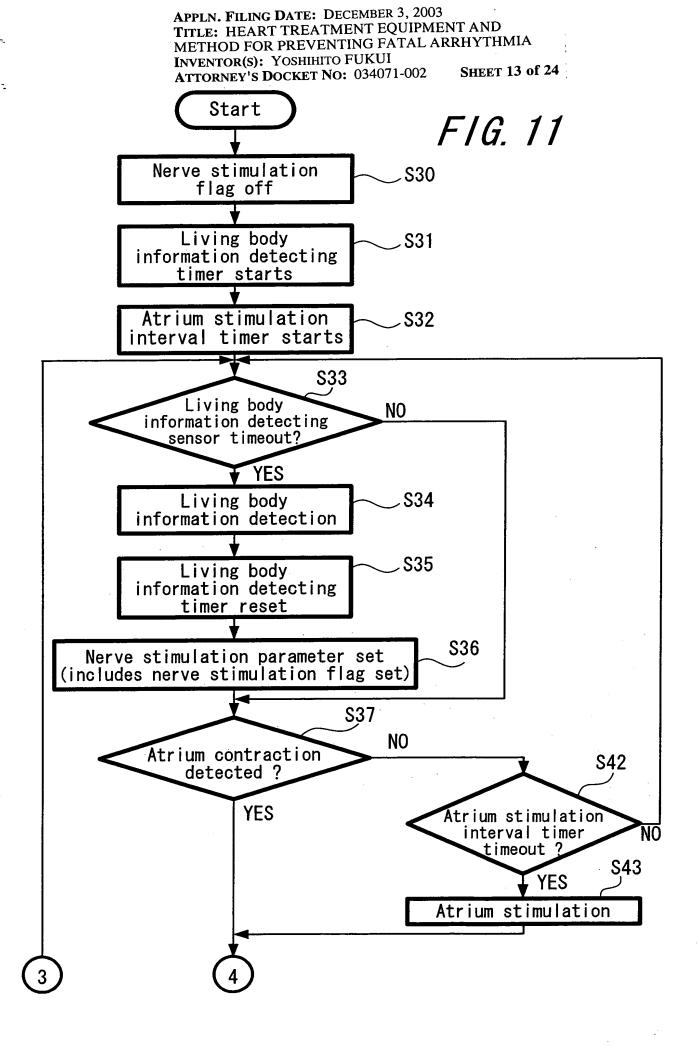
TITLE: HEART TREATMENT EQUIPMENT AND METHOD FOR PREVENTING FATAL ARRHYTHMIA

INVENTOR(S): YOSHIHITO FUKUI

ATTORNEY'S DOCKET NO: 034071-002

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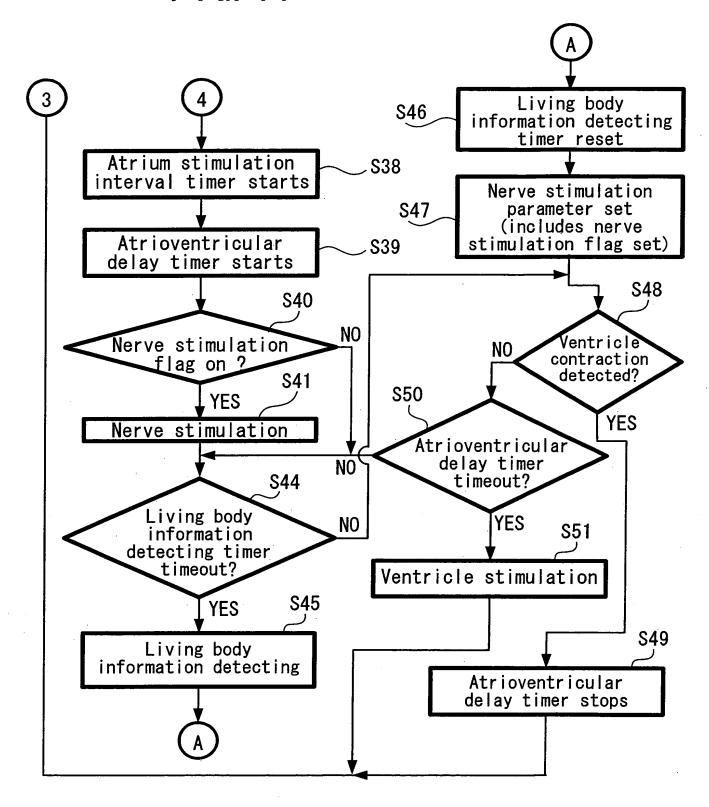


TITLE: HEART TREATMENT EQUIPMENT AND METHOD FOR PREVENTING FATAL ARRHYTHMIA

INVENTOR(S): YOSHIHITO FUKUI

ATTORNEY'S DOCKET NO: 034071-002 SHEET 14 of 24

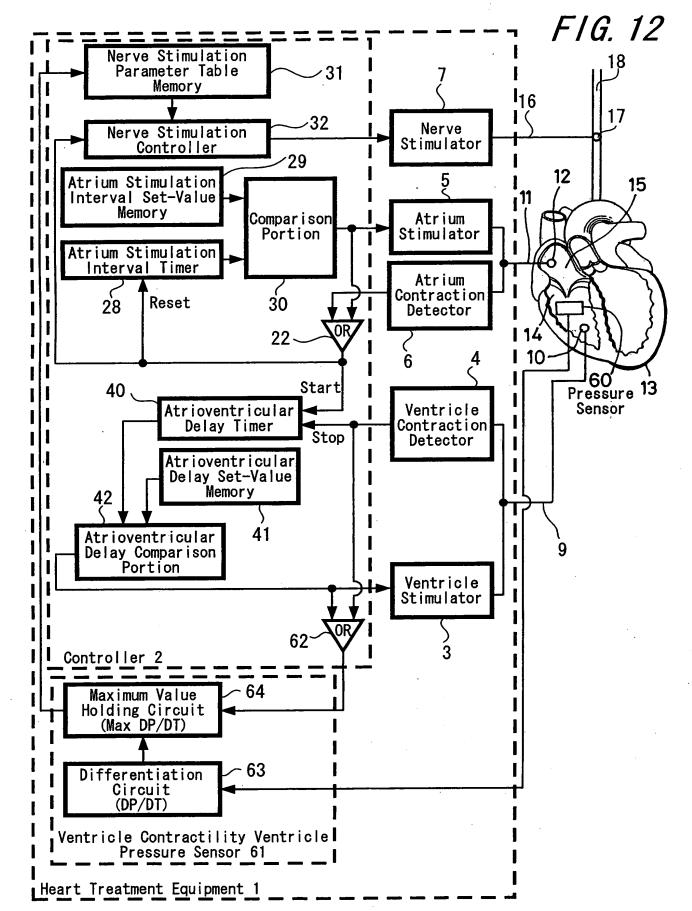
F/G. 11



TITLE: HEART TREATMENT EQUIPMENT AND METHOD FOR PREVENTING FATAL ARRHYTHMIA

INVENTOR(S): YOSHIHITO FUKUI

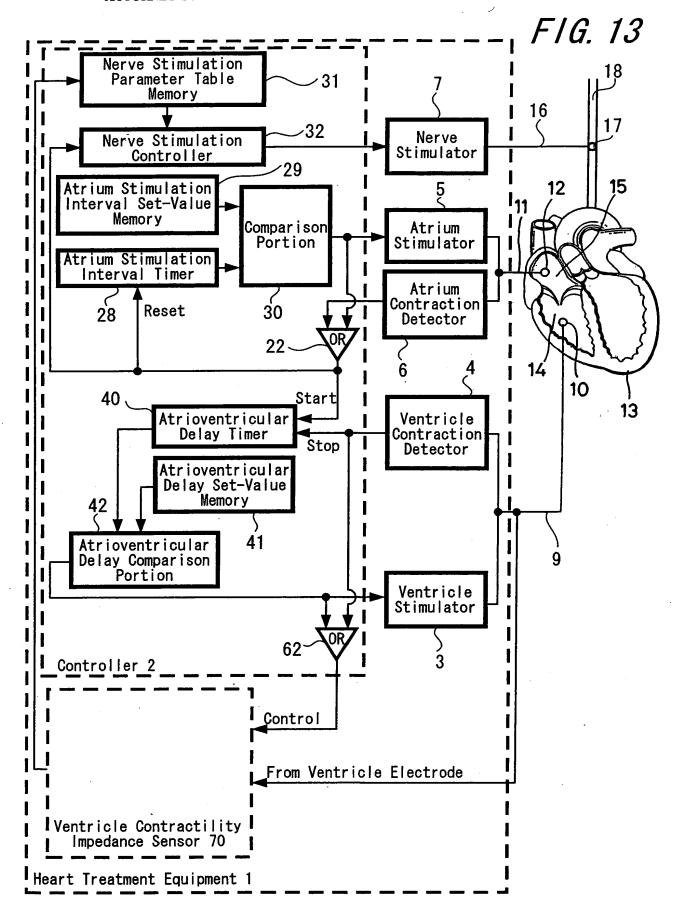
ATTORNEY'S DOCKET NO: 034071-002 SHEET 15 of 24



TITLE: HEART TREATMENT EQUIPMENT AND METHOD FOR PREVENTING FATAL ARRHYTHMIA

INVENTOR(S): YOSHIHITO FUKUI

ATTORNEY'S DOCKET NO: 034071-002 SHEET 16 of 24



APPLN. FILING DATE: DECEMBER 3, 2003
TITLE: HEART TREATMENT EQUIPMENT AND
METHOD FOR PREVENTING FATAL ARRHYTHMIA
INVENTOR(S): YOSHIHITO FUKUI

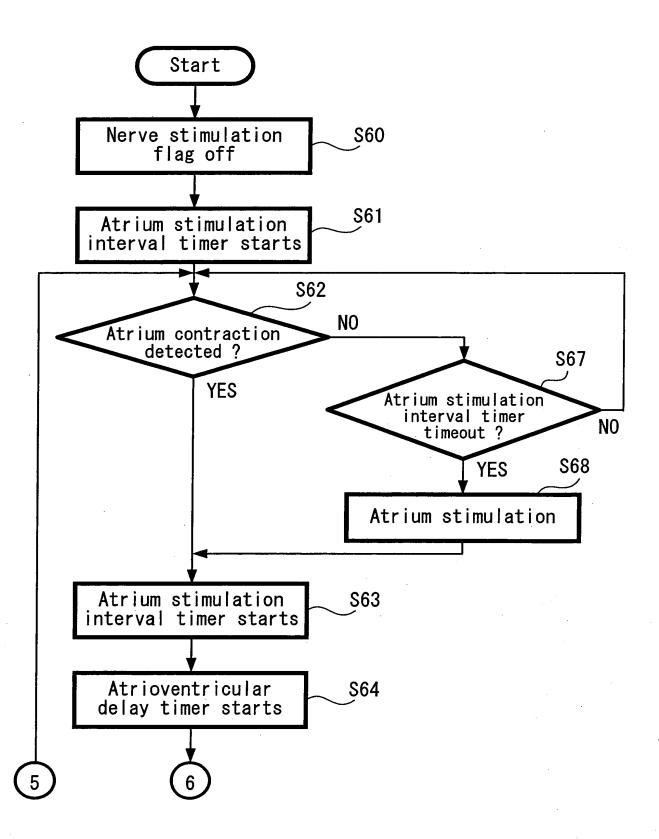
INVENTOR(S): YOSHIHITO FUKUI ATTORNEY'S DOCKET NO: 034071-002 **SHEET 17 of 24** From Ventricle From Ventricle Electrode Electrode Contro Contro Measuring Time Start Measuring Portion 9/ Measuring Portion End-Diastolic Volume Detecor Impedance mpedance Ventricle Pre-Ejection Period Sensor 71 Stroke Volume Sensor 75 Pre-Ejection Period Ventricle Ejection 28/ Stroke Volume Operator 6/2 End-Systolic Volume Detector lackStop Measuring Detector Stop 74 To Nerve Stimulation ¹ Parameter Table Memory To Nerve Stimulation Parameter Table Memory Parameter F16. 15 F1G. 14

TITLE: HEART TREATMENT EQUIPMENT AND METHOD FOR PREVENTING FATAL ARRHYTHMIA

INVENTOR(S): YOSHIHITO FUKUI

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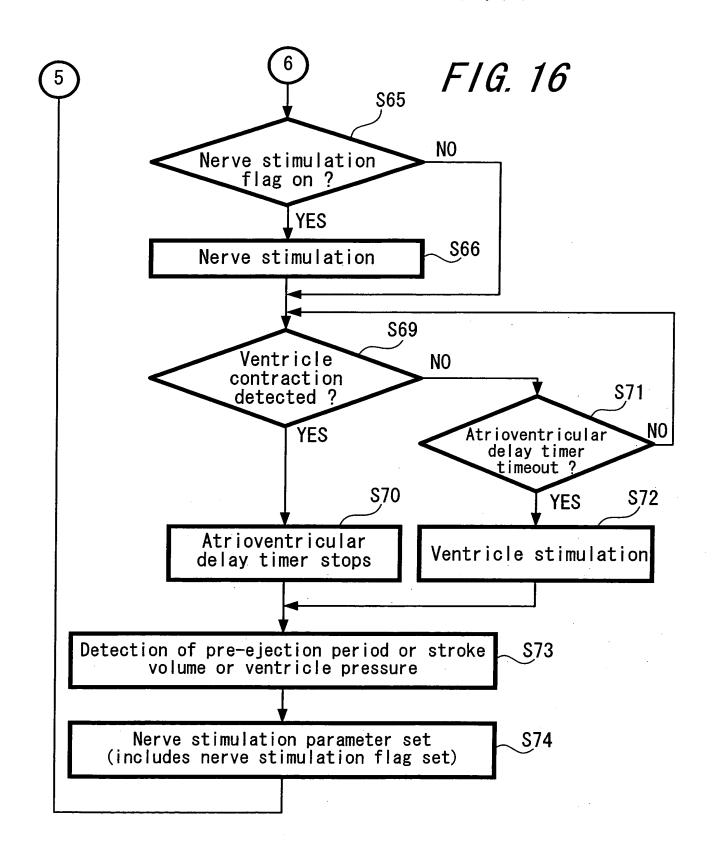
F/G. 16



TITLE: HEART TREATMENT EQUIPMENT AND METHOD FOR PREVENTING FATAL ARRHYTHMIA

INVENTOR(S): YOSHIHITO FUKUI

ATTORNEY'S DOCKET NO: 034071-002 SHEET 19 of 24



TITLE: HEART TREATMENT EQUIPMENT AND METHOD FOR PREVENTING FATAL ARRHYTHMIA

INVENTOR(S): YOSHIHITO FUKUI

ATTORNEY'S DOCKET NO: 034071-002

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FIG. 17A

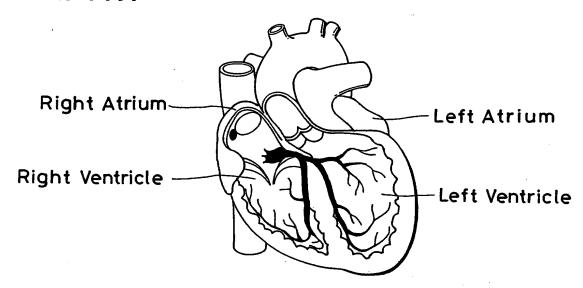
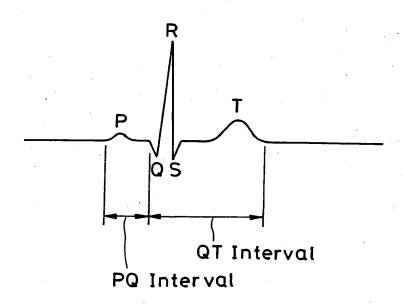
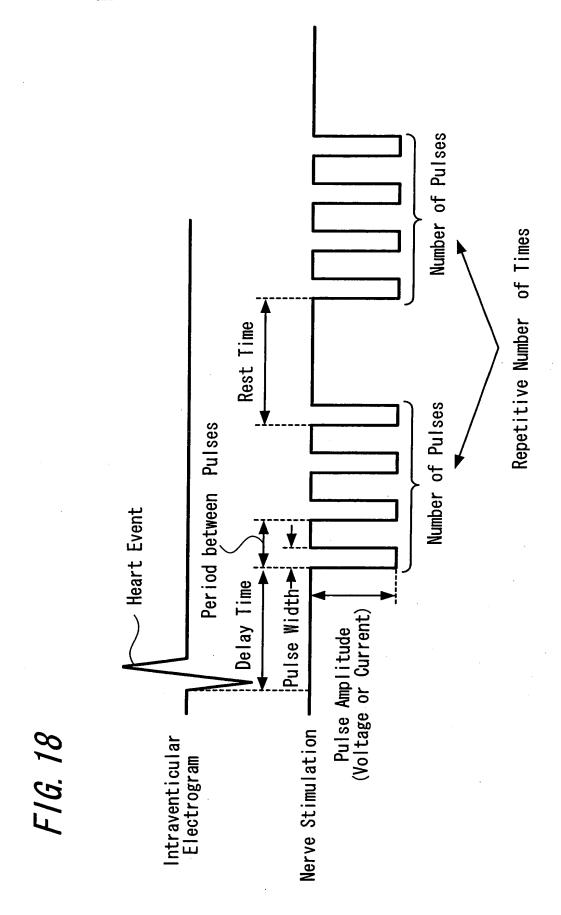


FIG. 17B



APPLN. FILING DATE: DECEMBER 3, 2003
TITLE: HEART TREATMENT EQUIPMENT AND
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Inventor(s): Yoshihito FUKUI Attorney's Docket No: 034071-002 SHEET 21 of 24



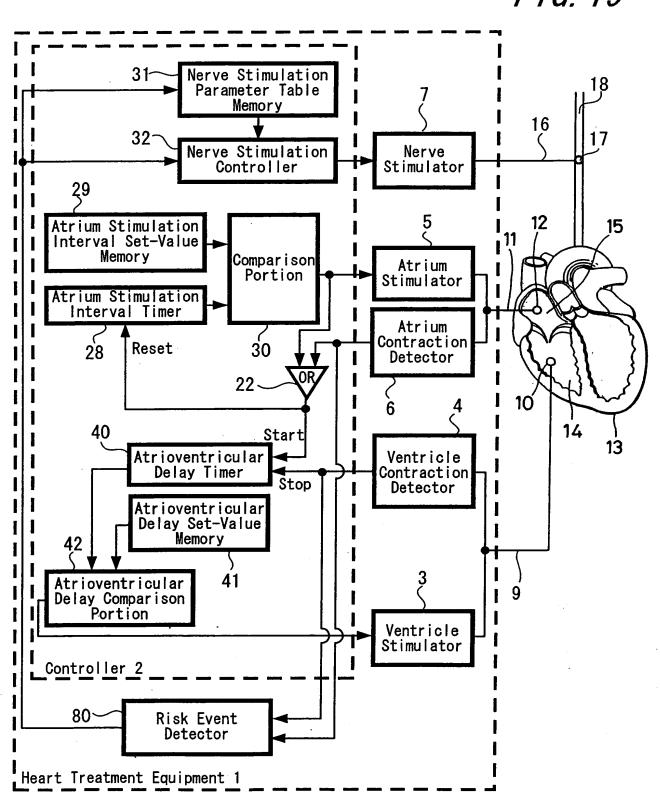
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INVENTOR(S): YOSHIHITO FUKUI

ATTORNEY'S DOCKET NO: 034071-002

FIG. 19

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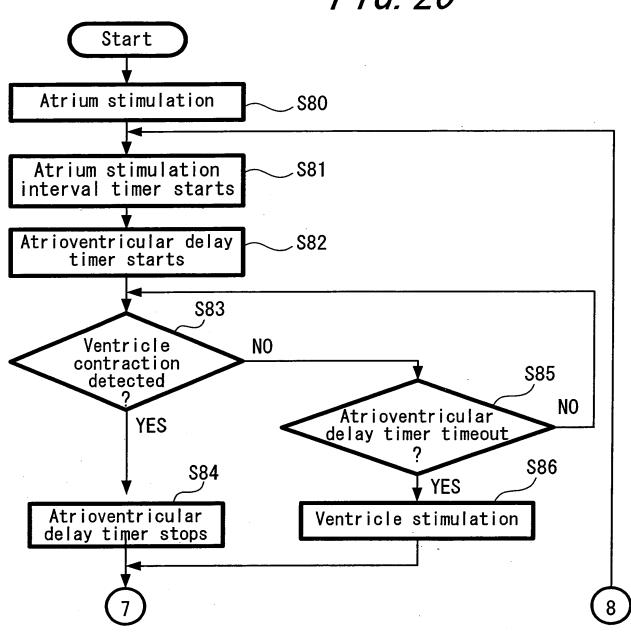
TITLE: HEART TREATMENT EQUIPMENT AND METHOD FOR PREVENTING FATAL ARRHYTHMIA

INVENTOR(S): YOSHIHITO FUKUI

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TITLE: HEART TREATMENT EQUIPMENT AND METHOD FOR PREVENTING FATAL ARRHYTHMIA

INVENTOR(S): YOSHIHITO FUKUI

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